ALUMINUM ELECTROLYTIC CAPACITORS

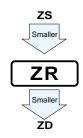
3.95mmL MAX. Chip Type







- Chip type with 3.95mmLMAX height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).





■Specifications

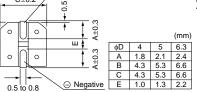
Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	4 to 50V										
Rated Capacitance Range	0.1 to 220µF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater.										
T	Rated voltage(V)		4	6.3	10	16	25	35	50	120Hz 20°C	
Tangent of loss angle (tan δ)	tan δ (MAX.)		0.50	0.30	0.24	0.19	0.16	0.14	0.14		
	Rated voltage (V)		4	6.3	10	16	25	35	50	120Hz	
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	7	4	3	2	2	2	2		
		Z-40°C / Z+20°C	15	8	8	4	4	3	3		
Endurance	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value										
	capacitors are restored to 20°C after the rated voltage is tan δ 300% or less than the initial specified value									ial specified value	
	applied for 1000 hours at 85°C. Leakage current Less than or equal to the initial specified value										
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.									I to the initial specified value	
Marking	Black print on the case top.										



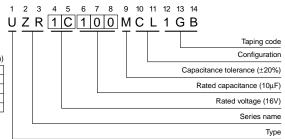
3.90 +0.05

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Е



Type numbering system (Example: 16V 10µF)



g Dimensions

6.3 10 16 25 35 50

> Α С

Voltage

Code

■Chip Type

	V 4		6.3		10		16		25		35		50		
Cap. (µF)	Code	0)G	C)J	1	A	1	С	1	ΙE	1	V	1	Н
0.1	0R1						!		!		!		!	4	1.0
0.22	R22				i				i				i	4	2.0
0.33	R33		ļ				!				!		!	4	2.8
0.47	R47		İ										i	4	4.0
1	010		i !				i !				ļ		!	4	8.4
2.2	2R2		İ						i					4	13
3.3	3R3		İ				İ		İ		İ			4	17
4.7	4R7									4	16	4	18	5	20
10	100				1		İ	4	23	5	27	5	29	6.3	33
22	220		İ	4	28	5	33	5	37	6.3	42	6.3	46		
33	330	4	28	5	37	5	41	6.3	49	6.3	52		i		
47	470	4	33	5	45	6.3	52	6.3	58						
100	101	5	56	6.3	70		i i		İ		İ		İ		
220	221	6.3	96											Case size	Rated

Rated ripple current (mArms) at 85°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more	
Coefficient	0.70	1.00	1.17	1.36	1.50	

- Taping specifications are given in page 23.
- Recommended land size soldering by reflow are given
- Please refer to page 3 for the minimum order quantity

CAT.8100Z